

dunetpc - Feature #16371

Add ideal ADC simulator to DetSim

05/01/2017 09:04 AM - David Adams

Status:	Closed	Start date:	05/01/2017
Priority:	Normal	Due date:	
Assignee:	David Adams	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
I am adding an ideal ADC simulator to the DUNE detector simulation. It will be in the form of an art tool accessed via a tool manager so we can later plug in more realistic ADC simulations.			

History

#1 - 05/01/2017 09:07 AM - David Adams

- Status changed from New to Assigned
- Assignee set to David Adams

I have added an AdcSimulator interface to dune/DuneInterface.
I have added a DuneToolmanager to dune/ArtSupport.
I have added the tool IdealAdcSimulator to dune/DetSim/Tools.

#2 - 05/01/2017 11:19 AM - David Adams

I have added detsimtools_dune.fcl in dune/DetSim/fcl.

I have added fcl/common/tools_dune.fcl and included the preceding there.

I added the latter to fcl/dune35t/detsim/standard_detsim_dune35t.fcl but then removed it. This is not needed because the tool manager takes to tool definitions directly from tools_dune.fcl.

#3 - 05/01/2017 12:09 PM - David Adams

- Status changed from Assigned to Closed

I have now modified the SimWireDUNE module so it uses an AdcSimulator tool configured with adcsim_ideal in place of the old ADC calculation included in the module.

I first verified the results are the same for 10 events in each of 35t and FD126.

Changes are committed.

Closing.